

Proceedings of the State Environment Impact Assessment Authority Kerala

Present: Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and Sri. James Varghese, I.A.S., Member Secretary.

Sub: SEIAA- Environmental clearance for the proposed quarry project in Sy. Nos. 1293 & 238 at Ayyankunnu Village, Iritty Taluk, Kannur District, Kerala by Sri.Muhammed Haji Moolayil - EC granted - Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No. 928/SEIAA/EC4/3894/2015

Dated, Thiruvananthapuram. 06.05.2017

- Ref: 1. Application dated 23-09-2015 from Sri.Muhammed Haji Moolayil., Managing Director, M/s Kannur District Black Rock Crushers and Sand Making Industries Pvt. Ltd.
 - 2. Minutes of the 57th Meeting of SEAC held on 16th & 17th June, 2016
 - 3. Minutes of the 60th meeting of SEAC held on 28th & 29th July, 2016.
 - 4. Minutes of the 61st meeting of SEAC held on 11thAugust, 2016.
 - 5. Minutes of the 63rd Meeting of SEAC held on 4th October 2016.
 - 6. Minutes of the 61st meeting of SEIAA held on 30th November 2016
 - 7. Minutes of the 64th meeting of SEIAA held on 23rd February 2017.

ENVIRONMENTAL CLEARANCE NO. 33/2017

Sri Muhammed Haji Moolayil., Managing Director, M/s Kannur District Black Rock Crushers and Sand Making Industries Pvt. Ltd, TTN 31 A, Ward-9, Kauser Complex, Caltex Junction, Kannur District, Kerala State - 670002, vide his application received on 23-09-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 1293 & 238 at Ayyankunnu Village, Iritty Taluk, Kannur District, Kerala for an area of 9.3077 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

| I. Project details | | | | |
|--------------------|-------------------------------------|---|--|--|
| 1. | 1. File No. 928/SEIAA/EC4/3894/2015 | | | |
| 2. | Name /Title of the | Quarry project of M/s Kannur District Black Rock Crushers | | |
| | project | and Sand Making Industries Pvt. Ltd. | | |
| 3. | Name and address of | Mr.Muhammed Haji Moolayil, | | |
| | project proponent. | Managing Director | | |

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|-----------------|---|---|--|
| | | M/s KANNUR DISTRICT BLACK ROCK CRUSHERS | |
| | | AND SAND MAKING INDUSTRIES PVT. LTD. | |
| | | TTN 31A, Ward-9, Kauser Complex, | |
| $\vdash \vdash$ | 0 01 1 1 | Caltex Junction, Kannur, Kerala-670002. | |
| 4. | Owner of the land | Private own land | |
| 5. | Survey No. District/Taluk/ and Village etc. | Survey Nos. 1293 & 238 of Ayyankunnu Village, IrittyTaluk, Kannur District, Kerala | |
| 6. | Nature of the proposal — lease or permit with evidence. | Letter of Intent from Directorate of Mining & Geology Department, Trivandrum (No. 9060/M3/2015 dt. 04-09-2015) for an area of 9.3077 hectares. | |
| 7. | Date of submission of Application | 22-09-2015 | |
| 8. | Brief description of the project. | Quarry project with an area of 9.3077 hectares & Production capacity of 9,00,000 MTA | |
| 9. | Details of Authorized Signatory and address for correspondence | Mr.Muhammed Haji Moolayil, Managing Director M/s KANNUR DISTRICT BLACK ROCK CRUSHERS AND SAND MAKING INDUSTRIES PVT. LTD. TTN 31A, Ward-9, Kauser Complex, Caltex Junction, Kannur, Kerala-670002. | |
| | | II. Land Details | |
| 10. | a) Extent of area in hectares | 9.3077 hectares | |
| 11. | b) Is the property forest land/Govt. land/own land/patta land | Own Land | |
| 12. | c) Quantity of top soil/over burden produced and managed | Top soil; 55,170 cu. m. Overburden: 29,706 cu. m | |
| 13. | d) Latitude and Longitude | Latitude (N) 12°03'32.22"N to 12°03'47.93"N Longitude (E) 75°45'43.09"E to 75°45'54.90"E | |
| 14. | e) Topography of land and elevation | Part of the proposed land is exposed rock and the remaining land is covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The highest elevation of the lease area is 445 m MSL and lowest is 280 m MSL. As the proposed area is low height hillocks, the drainage of the lease area is towards SW. No habitants are located in the lease area. | |
| 15. | f) Slope analysis | Slope: towards SW | |
| 16. | g) Will there be any significant land disturbance resulting in soil erosion, subsidence & | No | |

| | 1 | natural drainage. | |
|---------------|-----------|-------------------------------|--|
| | h) | Access road to the | |
| 17. | 117 | site width and | 7 m., tarred road, SW |
| | 1 | condition | |
| | i) | Will there be any | No., there will be no adverse impacts envisaged on the |
| | '' | adverse impact on | aesthetics of the project site. The water samples collected and |
| 18. | | the aesthetics of | analyzed from the different locations and reports are provided |
| | | the proposal site | along with the application |
| _ | | the proposal site | III. Mining details |
| - | a) | Minimum and | |
| 19. | u) | Maximum height | 280 m MSL and 445 m MSL |
| 17. | | of excavation. | |
| | b) | | `````````````````````````````````````` |
| 20. | 0) | proposed. | About 7 years |
| i | <u>c)</u> | Underground | |
| 21. | -, | mining if any | No Visit Control of the Control of t |
| | | proposed | |
| 22. | d) | | Open Cast |
| | e) | Distance from the | There is no quarry in operation within 500m radius from the |
| 23. | - / | adjacent quarry | proposed quarry site. |
| | f) | Cluster condition if | There is no quarry in operation within 500m radius from the |
| 24. | | any | proposed quarry site. |
| | g) | Has "No cluster | |
| 25. | | certificate" | Yes. |
| | | submitted? | |
| 26. | h) | | Nearest house is about 176 m towards south side from the site. |
| 20. | | nearby habitation | |
| | i) | Distance from | Parakkamala – 5 km |
| 27. | | nearby forest, if | |
| | | applicable | |
| | j) | Distance from | |
| 28. | | protected area, | Aralam Wildlife Sanctuary, 14 km, SE |
| 20. | | Wildlife Sanctuary, | |
| | | National Park etc. | |
| | k) | Distance from | |
| | | nearby | SH 50 Uill Highway 5 50 lm S |
| 29. | • | streams/rivers/Nati | SH-59, Hill Highway, 5.50 km, S |
| | | onal Highway and | |
| | 11 | Roads | |
| | 1) | Is ESA applicable? | Not folling in ESA |
| 30. | | If so distance from | Not falling in ESA |
| ESA limit | | | |
| | m |) Has approved | |
| 31. | | mining plan, | Yes. |
| | | prepared by RQP | · |
| _ | > | submitted? | |
| 32. | n) | Capacity of production in TPA | 9,00,000 MTA |
| | | production in TPA | |

| | | ı · · · · · · · · · · · · · · · · · · · | | |
|-----|--|---|--|--|
| 33. | o) Details of mining process | | to undertake Open Cast Semi-Mechanized includes blasting, loading, transport and | |
| | | IV. Details | of Project cost | |
| 34. | a) Land cost | - | | |
| 3.5 | b) Plant and | Rs. 5.78 Crores | | |
| 35. | Machinery | | | |
| 36. | c) Total Cost | Rs. 5.78 Crores | · | |
| | V. Financial | | | |
| | Statement including | Insurance : Insu | rance to the quarry workers would be provided | |
| 37. | funding sourceand | through insuran | ce company | |
| | details of insurance | Source of Funding: Own source + Bank loan | | |
| | etc. | | | |
| | | | MANAGEMENT PLAN: | |
| | | Air pollution | Mining activities will generate certain | |
| | | | quantities of dust during drilling, blasting, | |
| | | | loading and transportation operations. The | |
| | | | following measures will be taken to | |
| | | | mitigate the fugitive dust from different | |
| | | | operations. | |
| | | | > Laying of haul road as per the | |
| | | | standards, black topping of permanent | |
| | | | haul road and service road to avoid or | |
| ĺ | | | eliminate air – borne dust. | |
| | | | To avoid the dust generation from the | |
| | | | drilling operations, wet drilling method | |
| | | | will be adopted. | |
| | | | > Drill machines will be equipped with | |
| | Marian Diag | | dust collectors. | |
| 38. | Management Plan | | > Use of appropriate explosives for | |
| 30. | | in i | blasting and avoiding overcharging of blast holes. | |
| | | l riii | Controlled blasting techniques will be | |
| | | | adopted. | |
| | | | > Watering of haul road and other road at | |
| | | | regular intervals. | |
| | ************************************** | <u> </u> | > Provision of dust filters/ mask to | |
| | | | workers working at highly dust prone | |
| İ | | | and affected areas. | |
| | | | > Provision of green belt all along the | |
| | | | periphery of the lease area. | |
| | | | > Periodical monitoring of ambient air | |
| | • | | quality in and around the lease area. | |
| | | | The extracted mineral will be transported | |
| | | | from the quarry to the end user by adopting | |
| | | | following measures so as to minimize dust | |
| | | | emissions. | |
| | | | ➤ In case of long transportation the trucks | |

| | | after loading will be covered with tarpaulin sheets. > Speed of the vehicles will be maintained within the prescribed limits. Trucks will not be over loaded and will be |
|---|-------------|--|
| | | maintained to the body level |
| | Water | Provision of storm water collection pond |
| | pollution | of total capacity about 4,000 KL. The |
| | 1 | water requirement for sprinkling on |
| | | sources of dust emission, on roads, |
| | | landscaping etc. Can be met from the |
| | | stored rainwater in the pond. |
| | Noise | The major noise generating source from |
| | 110130 | the proposed activity is working |
| | | machinery, drilling, blasting and plying of |
| 1 | | vehicles. The following control measures |
| | | are to be undertaken to bring down the |
| | | noise levels:- |
| | | Proper maintenance of machinery, |
| | | equipments and improvement on design |
| | | of machines. |
| | | > Use of personal protective devices i.e., |
| | | earmuffs and earplugs by workers, who |
| | | are working in high noise generating |
| | | areas. |
| | | > Creation of wide green belt of dense |
| | | foliage between mine areas and |
| | 1 | residential colonies. |
| | | related health problems |
| | | > Proper training to personnel to create |
| | | awareness about adverse noise level |
| | | effects. |
| | | Planned noise monitoring at suitable |
| | | locations in the plant and outside |
| | | location for proper effective remedial |
| | | actions. |
| | Solid Waste | Topsoil Management |
| | Management | A total estimated quantity of 55,170 cu. m. |
| | Management | of topsoil is proposed to be removed |
| | 1 | during the mining operations. The topsoil |
| | | excavated from the quarry will be dumped |
| 1 | | separately at pre-determined place and |
| | | subsequently will be utilized in spreading |
| | | over reclaimed areas for plantation. |
| | | Precautions will be taken to limit the |
| | | height of the topsoil dump to 5 to 6 meters |
| | | in order to preserve its fertility and shelf |
| | | life. It will be suitably protected from soil |
| | | erosion and infertility by planting fodder |
| | | crosion and informity by planting rodder |

| | | grass and leguminous plants during temporary storage. | | | |
|-----|---|---|--|--|--|
| | VI. Whether | Overburden Management About 29,706 cu. m of overburden will be generated throughout the mine life. This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation. Eco The year wise programme of ecorestoration The year wise programme of ecorestoration for the life of mine, about 10,000 trees will be planted in an area of 9.3077 ha. | | | |
| 39. | Environment Management Plan or Eco restoration Plan satisfactory? | Yes. Mentioned as item No. 38 | | | |
| 40. | VII. Does it suggest mitigation measures for each activity | Yes | | | |
| 41. | VIII. If Pre- Feasibility Report (PFR) satisfactory | Yes. | | | |
| 42. | IX. Does it need public hearing | No Public Hearing required because of the project comes under below 25 ha. (Category B2) | | | |
| 43. | X. Details of litigation and Court verdict if any | Nil | | | |
| 44. | XI. Details of public complaint, if any | Nil | | | |
| 45. | XII. Details of statutory sanction required | a. Mine Lease b. NOC from Pollution Control Board c. Environment Clearance from SEIAA / MoEF NOC from Explosive Dept. | | | |
| 46. | XIII.If CRZ recommendation applicable? | N.A. | | | |
| | PART B Environment Impact Assessment and Mitigation Measures | | | | |
| | Impact on water | | | | |
| 47. | a) Details of water requirement per day in KLD | The total water requirement is about 16 KLD in which 2 KLD is for domestic which would be sourced from open well 12 KLD for dust suppression system in mine as well as ancillary unit and 2 KLD for plantation purposes and will be sourced from storm water pond | | | |
| 48. | b) Water | Open Well & Storm water pond | | | |

| | l | | |
|----------|----|-----------------------------|--|
| <u> </u> | | source/sources. | |
| 49. | c) | Expected water use | 16 KLD |
| | | per day in KLD. | |
| | A) | Details of water | It is proposed to construct a storm water collection pond and |
| | u) | | de-siltation unit in the lowest contour of the plot. The water |
| 50. | | requirements met from water | requirement for sprinkling on sources of dust emission, roads |
| | | | and for landscaping purposes can be met from the stored rain |
| | | harvesting. | water pond and thereby conserve the fresh water. |
| | e) | What are the | The source of water for the project are :- Stored Rain water |
| 6.1 | , | impact of the | (Tanks), Wells. The use of ground water (standby |
| 51. | | proposal on the | arrangement) only based on the permissible yield from the |
| | | ground water? | large open wells. Thereby no impact to the ground water. |
| | f) | How much of the | |
| | ´ | water requirement | |
| | | can be met from | |
| · | | the recycling of | |
| 52. | | treated waste | Not applicable as the project is quarry Project |
| | | water? (Facilities | 40 ° 6" |
| | | for liquid waste | |
| | | treatment) | |
| | g) | What is the | |
| | 5) | incremental | |
| | | pollution load from | |
| 53. | | waste water | Not applicable as the project is quarry Project |
| | | generated from the | |
| | | proposed | |
| | | activities? | |
| | h) | | T 3 |
| 54. | , | water from within | If is proposed to construct a storm water collection pond and |
| | | the site managed? | de-siltation unit in the lowest contour of the plot. |
| | | | Sindiversity and Eco restoration Programmes |
| | | | Part of the proposed area is an existing quarry and this area is |
| | | involve extensive | devoid of any vegetation. The remaining area for proposed |
| | | clearing or | quarry has native trees, climbers, grass, shrubs, herbs etc. |
| 55. | | modification of | There is no existing building in the proposed area. |
| | | vegetation | Proposition of the proposition o |
| | | (Provide details) | |
| | | | It is proposed to develop green belt to 91 % which includes |
| | | | areas like along mine lease boundary (7.5 m width), all along |
| | b) | What ate the | the periphery and reclaimed area. |
| | -, | measures proposed | Grass and bushes will be planted in areas prone to |
| | | to minimize the | erosion especially at the foot of the hill. Other areas will be |
| | | likely impact on | fertilized and planted with local species. The characteristics of |
| 56. | | vegetation (details | this vegetation will resemble that of the natural environment |
| | | of proposal for tree | except for the early growth, which may be a protective cover |
| | | plantation/ | crop of non-seeding annuals. |
| | | landscaping) | crop of non-securing annuals. |
| | | andscaping) | The year wise programme of eco-restoration for the life of |
| | | | mine, about 10,000 trees will be planted in an area of 9.3077 |
| | | | mine, about 10,000 trees will be planted in an area of 9.5077 |

| | | | ha. | |
|------------------|------|----------------------|--|--|
| | c) | Is there any | TO: | |
| | () | displacement of | | |
| | | fauna – both | | |
| | | terrestrial and | No. | |
| | | | | |
| | | aquatic. – If so | | |
| 57. | | what are the | | |
| | | mitigation | | |
| | •\ | measures? | | |
| | d) | Presence of any | No. | |
| | | endangered species | | |
| | | or red listed | , | |
| | | category (in detail) | | |
| | | | Impact on Air Environment | |
| | a) | What are the | | |
| | ! | mitigation | The prime objective of the baseline air monitoring was to | |
| 58. | | measures on | evaluate the existing air quality of the area. This will also be | |
| " | | generation of dust, | useful for assessing the conformity to standards of the ambient | |
| | | smoke and air | air quality during the operation of the proposed mine. | |
| | | quality | | |
| | b) | Details of internal | | |
| 59. | | traffic | NA | |
|] J. | | management of the | | |
| | | site. | | |
| | c) | Details of noise | | |
| | | from traffic, | | |
| 60. | | machines and | Yes, noise level monitoring carried out from an approved | |
| | | vibrator and | laboratory at site and report of the same is already submitted. | |
| | | mitigation | | |
| | - 12 | measures | | |
| | a) | Impact of DG sets | | |
| | | and other | | |
| | | equipments on | Drilling, blasting, compressors, plying of vehicles are the | |
| | | noise and vibration | main sources of noise. | |
| 61. | | and ambient air | Noise level monitoring carried out from an approved | |
| | | quality around the | laboratory at site and report of the same is already submitted. | |
| | | project site and | | |
| | | mitigation | | |
| | | measures | 37 11 4 5 14 4 5 25 | |
| 100 | e) | Air quality | Yes, ambient air quality monitoring carried out from an | |
| 62. | | monitoring in | approved laboratory at site and report of the same is already | |
| detail submitted | | | | |
| <u> </u> | ري | Dataile of navyon | Energy Conservation The total power requirement will be 75 kW for compressors | |
| 62 | a) | Details of power | which will be operated by Diesel Engine. | |
| 63. | | requirement and | which will be operated by Dieser Elignic. | |
| | LV | source of supply. | The project arounded to horse a color marrow about to | |
| 6 | b) | Details of | The project proponent proposed to have a solar power plant to | |
| 64. | | renewable energy | meet the energy requirements of the site office & labour | |
| <u></u> | | (non – | quarters. | |

| | conventions | al) | | | | |
|-----|---|---|---|--|--|--|
| | useu. | Risk N | Management | | | |
| 65. | a) Are there sufficient measures profession for risk haz case of emeasure as according to the site? | oposed ards in argency All work | arricading and monitoring of the water stored area taken up to prevent accidents. uipped medical / hospital facilities would be round the clock for attending emergency arising cidents. ting personnel would be medically examined at the in every year and at the end of his term of | | | |
| | b) Are propos fencing aro quarry satisfactory c) Storage of | und the Yes | low consumption, a 550 kg magazine is for | | | |
| 66. | explosives/ us substance detail | hazardo storing the excomplex. | xplosive. The magazines are exists within the | | | |
| | d) Facility for waste mana | solid gement of over burd The topsoil separately a utilized in swill be utili | tity of 55,170 cu. m. of topsoil and 29,706 cu. m en will be removed during the mining operations. excavated from the quarry will be dumped pre-determined place and subsequently will be preading over reclaimed areas for plantation. OB zed for laying internal haul road and will form mation / plantation. | | | |
| l | Socio Economic Impacts | | | | | |
| 67. | a) Will the procause adver- effects on leading to the communitied disturbance sacred sites other cultural values. When the safe guar proposed? | oject se ocal ss to or Al at are | | | | |
| 68. | b) Will the pro- result in an changes to demograph structure of population, provide det | the No. Part of pherbs, grass, If so, | proposed land is covered with native trees, shrubs, climbers, bushes etc. it shoud be removed. | | | |
| 69. | c) Give detai CSR propo | sals and 5 lakhs welfare of the | ont should set apart Rs 7.5 lakhs (non-recurring) per annum (recurring) for CSR activities for the local community. | | | |
| 70. | d) What are the projects be | ie 35 people ar | e directly and indirectly working this quarry. | | | |

| | terms of employment potential? | | | | |
|------|---|--|--|--|--|
| | | PART C | | | |
| | Details of NABET | M/s Environmental Engineers & Consultants Pvt. Ltd. | | | |
| | approved EIA | (MoEF&CC list of Accredited Consultant Organization) | | | |
| 71. | Consultant engaged- | Head Office:-A1-198, JanakPuri, New Delhi. | | | |
| / 1. | Their name, address | Branch Office:- | | | |
| | and accreditation | C-306, Kanchanjunga Apartments, | | | |
| | details | Palarivattom P.O., Kochi, Kerala. | | | |
| | Summary and Conclusion | | | | |
| 72. | a) Overall justification for implementation of the project. | The proposed project is an existing quarry project for an area of 9.3077 hectares. As per detailed estimation the geological reserves is about 2,07,42,558 MT. After deducting the minerals locked in mines safety slope of 1,41,20,140 MT, the mineable reserves arrived to be 66,46,338 MT. The annual production is estimated to be 9,00,000 MTA. | | | |
| 73. | b) Explanation of how adverse impact have been mitigated. | No., there will be no adverse impacts envisaged on the aesthetics of the project site. | | | |

2. The proposal was considered in the 57th Meeting of SEAC, held on 16-17th June, 2016. The committee deferred the item for field visit by a Sub Committee team consisting of Sri. John Mathai, Khaleel Chovva and Dr.Harikumar. The Committee shall specially look into the aspect of the proximity of the site to the inter-state boundary.

Field visit to the Quarry project site of Sri.Mohammed Haji Moolayil in Ayyankunnu Village, Iritty Taluk, Kannur District, Kerala was carried out on 17.07.2016 by the sub-committee of SEAC, Kerala, comprising Dr. P. S.Harikumar, Dr. K. M.Khaleel and Sri John Mathai. The Proponent along with his team was present at the site at the time of site visit. The project is located at about 5 km east of Kuttupuzha with approach from Anapanthi on the Iritty- Virajpet road. The interstate boundary is located about 2.5 km to the north. Since the project falls under B2 category general conditions are not applicable and hence the condition of interstate boundary is not considered. The area falls on the western sloping segment of Ayyankunnu. Boundary pillars of the proposed quarry are erected and numbered displaying GPS values. Adjacent land mostly belongs to the proponent. The rock type is variants of charnockite. An active quarry with a crusher unit is seen, but not in operation for the last three months. A stream is seen flowing along the northern boundary. Upper slopes support cashew and other natural vegetation. Pockets of deep OB and top soil are noted. Another quarry of M/s Reena Metals is seen to the south. Dwelling units are not seen within 100 m. Based on an overall evaluation of the site, following aspects may be considered before it is recommended for EC:

- 1. Map showing all lands in possession and the proposed quarry lease area within this land
- 2. The certificate that the land is not assigned for special purposes.
- 3. Top soil and Over burden should be stored in a designated place on the lower northern slope away from the working area and provided with protective support walls.
- 4. The stream flowing along the boundary should be maintained and protected. The water draining into the proposed RWH will need further clarification before it is let out into this stream.
- 5. Garland drains and catch water drains are to be provided to the quarry.
- 6. Assurance that green belt will be provided around the periphery. A separate plot should be set apart for preserving rare plants in the vicinity.
- 7. The CSR activity needs revision addressing the needs of the locality.
- 3. The proposal was considered in the 60th meeting of SEAC held on 28th & 29th July, 2016 and 61st meeting of SEAC held on 11th August, 2016. The minutes of the said meeting is that "the Committee after examining the mining plan, prefeasibility report, field inspection report and all other documents submitted decided to intimate the proponent to submit the following documents/assurance on the stipulated conditions.
 - 1. Map showing all lands in possession and the proposed quarry lease area within the total area along with respective survey numbers.
 - 2. The certificate mentioned in 27, 2(f) of KMMC rule that the land is not assigned for special purposes.
 - 3. Top soil and Over burden should be stored in a designated place on the lower northern slope away from the working area and provided with protective support walls.
 - 4. The stream flowing along the boundary should be maintained and protected. The water draining into the proposed RWH will need further clarification before it is let out into this stream.
 - 5. Garland drains and catch water drains are to be provided to the quarry.
 - 6. Assurance that green belt will be provided around the periphery. A separate plot should be set apart for preserving rare plants in the vicinity.
 - 7. The CSR activity needs revision addressing the needs of the locality. The proposal shall be taken up after getting all documents.
- 4. On submission of the above said documents vide letter no. nil dated.27.09.2016 on 29/09/2016, the proposal was again considered in the 63rd Meeting of SEAC held on 4th October 2016. The committee appraised the proposal based on the mining plan (KMMCR-2015), pre-feasibility report and all other documents submitted along with the Form I application and recommended for issuance of EC for mining subject to the general conditions along with the specific conditions.
 - 1. Top soil and Over burden should be stored in a designated place on the lower

- northern slope away from the working area and provided with protective support walls.
- 2. The stream flowing along the boundary should be maintained and protected. The water draining into the proposed RWH will need further clarification before it is let out into this stream.
- 3. Garland drains and catch water drains are to be provided to the quarry.
- 4. Assurance that green belt will be provided around the periphery.

The proponent agreed to set apart Rs 7.5 lakhs (non-recurring) and 5 lakhs per annum (recurring) for next 5 years for CSR activities for the welfare of the local community. The proponent also agreed to spend this amount in consultation with the local Panchayath.

The validity of lease/permit to be produced in SEIAA before issuance of E.C.

5. The 61st meeting of SEIAA held on 30.11.2016 decided to issue Environmental Clearance subject to the production of valid lease permit. An Affidavit to the effect that mining shall be continued only after fulfilling the above specific conditions shall also be submitted.

But when the authority decided to issue EC an important matter noticed that this is not a working quarry so the proponent could not be able to produce the lease permit. The proponent will get lease permit only after he gets Environmental Clearance.

- 6. Hence the proposal was again placed in the 64th meeting of the Authority held on 23rd February 2016. The Authority decided to issue Environmental Clearance on production of an affidavit stating that it is not a working quarry.
- 7. The proponent has submitted an affidavit stating that all the specific conditions shall be strictly implemented and that the proposal is for a new quarry project. Environmental clearance as per the EIA notification 2006 is hereby accorded for the proposed Quarry project of Sri.Muhammed Haji Moolayil., Managing Director, M/s Kannur District Black Rock Crushers and Sand Making industries Pvt. Ltd, TTN 31 A, Ward-9, Kauser Complex, Caltex Junction, Kannur District, Kerala State 670002 in Survey Nos. 1293 & 238 at Ayyankunnu Village, Iritty Taluk, Kannur District, Kerala for an area of 9.3077 hectares, subject to the specific conditions as recommended by SEIAA in para 4 above, all the environmental impact mitigation and management measures undertaken by the project proponent in the Form I, EMP, PFR and Mining plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining, appended hereto will be applicable and have to be strictly adhered to.
- 8. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above

undertakings and the conditions and the undertakings in Chapter 4 (Mining), Chapter 5 (Blasting), Chapter 6 (Mine Drainage), Chapter 7 (Stacking of Mineral rejects and Disposal of waste), Chapter 11 (EMP) Chapter 12 (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

- 9. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.
- 10. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.
 - i. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
 - ii. Instances of violation if any shall be reported to the District Collector, Kannur to take legal action under the Environment (Protection) Act 1986.
 - iii. The given address for correspondence with the authorised signatory of the project is Sri.Muhammed Haji Moolayil., Managing Director, M/s Kannur District Black Rock Crushers and Sand Making Industries Pvt. Ltd, TTN 31 A, Ward-9, Kauser Complex, Caltex Junction, Kannur District, Kerala State 670002.



Sd/JAMES VARGHESE.I.A.S,
Member Secretary (SEIAA)

To,

Sri.Muhammed Haji Moolayil.,
Managing Director,
M/s Kannur District Black Rock Crushers &
Sand Making Industries Pvt. Ltd,
TTN 31 A, Ward-9, Kauser Complex,
Caltex Junction, Kannur District,
Kerala State - 670002

Copy to,

- 1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
- 2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
- 3. Director, Mining & Geology, Thiruvananthapuram -4.
- 4. District Collector, Kannur
- 5. Secretary, Ayyankunnu Panchayat Office, Ayyankunnu, Angadikadavu P.O, Iritty, Kannur, Kerala 670 706
- 6. Chairman, SEIAA.
- 7. Website.
- 8. S/f,
- 9. 9. O/c

Forwarded/By Order

Administrator, SEIAA

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

- 1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- 2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- 3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
- 4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- 5. Sprinklers shall be installed and used in the project site to contain dust emissions.
- 6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- 7. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.
- 8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
- 9. The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.
- Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- 11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
- 12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
- Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- 14. A licensed person should supervise/ control the blasting operations.
- 15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- 16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
- 17. Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention is the mining plan/specific condition.
- 18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- 19. Maximum depth of mining from general ground level at site shall not exceed 10m
- 20. No mining operations should be carried out at places having a slope greater than 45°.
- 21. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
- 22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- 23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- 24. The transportation of minerals should be done in covered trucks to contain dust emissions.
- 25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- 26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.
- 27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.
- 29. 100 m buffer distance should be maintained from forest boundaries.

- 30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
- 31. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- 32. In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponentshall apply and get the approval of this Authority.
- 33. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 34. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
- A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
- The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office.
- 38. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public
- 39. The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.
- 40. No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.
- 41. The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
- 42. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.
- The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.

- 44. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
- 45. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul Road, loading and unloading points and transfer points it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- 47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
- 48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 49. The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.
- 50. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- 51. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 52. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 53. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or thisimplementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- 54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.
- 55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
- 56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
- 57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
- All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
- 59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
- 60. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.
- Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

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For Member Secretary, SEIAA Kerala

